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[redacted]
8 July 1964COPY 7

MEMORANDUM FOR: Chief, Military Economic Division, CRR/CIA

ATTENTION: [redacted]

THRU: Chief, RB/GR/CDS

SUBJECT: Submarines at Gorkiy Shipyard 112, USSR, Photo Study

REFERENCES: (a) Requirement No. C-RR4-81,560 (Project No N 754-64)

(c) CIA-P-012 (OUT 53684)

1. In response to Requirement No. C-RR4-81,560 (Project No. N 754-64), a photographic and mensural analysis was performed on two submarines observed in the water alongside probable fitting out piers at Shipyard 112, Gorkiy, USSR (56 22N-043 53E).

2. The length of the submarine observed alongside the easternmost fitting out pier was determined to be 280 feet. The beam of this submarine [redacted] The hull of the submarine observed alongside the pier nearest the launching basin was partially obscured toward the shoreline by shadow. The visible portion of this submarine measured 250 feet. The maximum possible length from the shoreline to the end of the submarine was approximately 325 feet. No appreciable converging or tapering of the hull outline was visible before the hull was lost in shadow - indicating that this submarine is considerably longer than 250 feet.

3. Numerous breaks running athwartships along the decks of both submarines indicate that these submarines are probably configured for cruise missile compartment hatches. The only known Soviet guided missile submarine equating to the dimensions and the imagery noted above is the "J" Class SSG.

4. The length of the launching transporter was determined to be 415 feet. The principal maximum dimensions for the large construction hall at Gorkiy Shipyard 112 were 700 feet by 530 feet. These dimensions approximate those derived from reference (b) (730 x 530). Utilizing the width of the construction hall as 530 feet, a dimensional cross-check was performed by the PI on the length of the submarine alongside the easternmost pier. A length of approximately 290 feet was obtained for this submarine.

Reviewed by NGA.

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5. The photography utilized for this analysis was [redacted] Mission.
[redacted] The quality of this
photography was satisfactory.

6. Initial analysis of this photography utilizing only the [redacted] on-line comparator, the standard [redacted] stereoscope, and the [redacted] 41x dual-power measuring microscope indicated that the lengths of the submarines at Gorkiy were approximately 300 feet. (See reference (c).) It is felt that a more accurate mensural analysis was achieved by the subsequent introduction of the following: further refinement of the orbital ephemeris data; the utilization of the [redacted] Precision Comparator (at 65x); and a simultaneous cross-check on the [redacted] stereo microscope (at 50x). These refined measurements are considered accurate to within a tolerance of plus or minus 5 per cent. The highest possible useable resolution for study purposes was obtained through the use of the prototype [redacted] High Power Stereo Viewer.

[redacted]
Colonel, USA
Assistant for Photographic Analysis, NPIC

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